(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 23 December 2004 (23.12.2004)

PCT

(10) International Publication Number WO~2004/110452~A1

- (51) International Patent Classification⁷: A61K 31/505,
 C07D 239/42, 401/04, 401/14, 403/04, 417/04, A61K
 31/506, A61P 35/00
- (21) International Application Number:

PCT/EP2004/006317

- (22) International Filing Date: 11 June 2004 (11.06.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/478,709

13 June 2003 (13.06.2003) US

- (71) Applicant (for all designated States except AT, US): NO-VARTIS AG [CH/CH]; Lichtstrasse 35, CH-4056 Basel (CH).
- (71) Applicant (for AT only): NOVARTIS PHARMA GMBH [AT/AT]; Brunner Strasse 59, A-1230 Vienna (AT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BATT, David, Bryant [US/US]; 33 Campbell Road, Wayland, MA 01778 (US). RAMSEY, Timothy, Michael [US/US]; 45 Ox Bow Road, Weston, MA 02493 (US). SABIO, Michael, Lloyd [US/US]; 46 Center Grove Road, Apt U-414, Randolph, NJ 07869 (US).

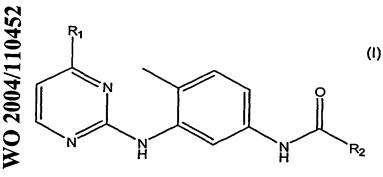
- (74) Agent: GRUBB, Philip; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 2-AMINOPYRIMIDINE DERIVATIVES AS RAF KINASE INHIBITORS



(57) Abstract: This application discloses compounds that inhibit Raf kinase having the formula (I), wherein R_1 is a phenyl radical or a heteroaryl radical; and R_2 is a phenyl radical; or an N-oxide or a pharmaceutically acceptable salt thereof. The compounds are useful for the treatment of proliferative diseases, such as cancer.